

CLAIMS

1. An electronic endoscope apparatus for outputting a video signal, to which an endoscope is detachably connected, said electronic endoscope apparatus, comprising:

an image pick-up device for photoelectrically converting a subject image and outputting an image signal;

A/D converting means for converting an output signal of said image pick-up device into a digital signal;

first signal processing means for performing processing of the signal converted by said A/D converting means corresponding to a first output format and outputting the video signal from a video signal output terminal; and

second signal processing means provided for a substrate detachably connected to a connector for outputting the signal converted by said A/D converting means, for performing imaging processing of the converted signal and outputting the video signal corresponding to a second output format.

2. An electronic endoscope apparatus for outputting a video signal, to which an endoscope is detachably connected, said electronic endoscope apparatus, comprising:

an image pick-up device for photoelectrically converting a subject image and outputting an image signal;

A/D converting means for converting an output signal of

said image pick-up device into a digital signal;

first signal processing means for performing first signal processing of the converted signal;

second signal processing means for performing processing of the image signal processed by said first signal processing means corresponding to a first output format;

first output means for outputting the image signal processing by said second signal processing means; and

a substrate comprising third signal processing means detachably connected to a connector for outputting the image signal processed by said first signal processing means, said third signal processing means for performing processing of said image signal corresponding to a second output format different from said first format, and second output means for outputting the image signal processed by said third signal processing means.

3. An electronic endoscope apparatus according to Claim 2, wherein said third signal processing means provided for said substrate comprises only a secondary circuit which is insulated from said A/D converting means.

4. An electronic endoscope apparatus according to Claim 2 or 3, further comprising:

connection detecting means connected and provided for said connector, for detecting the connection of said

substrate;

image display means for displaying the image signal outputted from said first output means; and

character information means for generating character information for displaying a menu screen on said image display means,

wherein the menu screen displayed on said image display means is automatically changed based on the signal detected by said connection detecting means.

5. A signal processing apparatus comprising:

an image pick-up device for photoelectrically converting a subject image and outputting an image signal;

A/D converting means for converting an output signal of said image pick-up device into a digital signal;

first signal processing means for performing processing of the signal converted by said A/D converting means corresponding to a first output format and outputting a video signal from a video signal output terminal; and

second signal processing means provided for a substrate detachably connected to a connector for outputting the signal converted by said A/D converting means, said second signal processing means for performing imaging processing of said converted signal and outputting the video signal corresponding to a second output format.

6. A signal processing apparatus comprising:

an image pick-up device for photoelectrically converting a subject image and outputting an image signal;

A/D converting means for converting an output signal of said image pick-up device into a digital signal;

first signal processing means for performing first signal processing of the converted signal;

second signal processing means for performing processing of the image signal processed by said first signal processing means corresponding to a first output format;

first output means for outputting the image signal processing by said second signal processing means; and

a substrate comprising third signal processing means detachably connected to a connector for outputting the image signal processed by said first signal processing means, said third signal processing means for performing processing of said image signal corresponding to a second output format different from said first format, and second output means for outputting the image signal processed by said third signal processing means.

7. A signal processing apparatus according to Claim 6, wherein said third signal processing means provided for said substrate comprises only a secondary circuit which is insulated from said A/D converting means.

8. A signal processing apparatus according to Claim 6

or 7, further comprising:

connection detecting means connected and provided for said connector, for detecting the connection of said substrate;

image display means for displaying the image signal outputted from said first output means; and

character information means for generating character information for displaying a menu screen on said image display means,

wherein the menu screen displayed on said image display means is automatically changed based on the signal detected by said connection detecting means.